



# CATALOGUE

OF THE

Officers and Students

OF

# LAFAYETTE COLLEGE,

FOR THE

YEAR 1870—1871,

WITH THE COURSES OF STUDY.

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EASTON, PA.

1871.

## COLLEGE CALENDAR.

### 1870.

September 1, Thursday. First term commenced.

December 21, Wednesday. First term ended.

#### VACATION OF TWO WEEKS.

### 1871.

January 5, Thursday. Second term commences.

March 22, Wednesday. Second term ends.

#### VACATION OF TWO WEEKS.

April 6, Thursday. Third term commences.

June 5—7. Final examination of the Senior Class.

June 15—19. Examination of the lower classes.

June 18, Sunday, A. M. Baccalaureate Sermon.

June 18, Sunday, P. M. Sermon before the Brainerd Missionary Society.

June 19, Monday. Senior Class Day and Concert.

June 20, Tuesday, A. M. Addresses from the Committee of Synod.

June 20, Tuesday, A. M. Re-union meetings of the Literary Societies.

June 20, Tuesday, P. M. Meeting of the Alumni Association.

June 20, Tuesday Evening. Oration before the Literary Societies.

June 21, Wednesday. Commencement exercises. .

#### VACATION OF TEN WEEKS.

August 30, Wednesday. Examination for admission.

August 31, Thursday. First term commences.

December 20, Wednesday. First term ends.

#### VACATION OF TWO WEEKS.

### 1872.

January 4, Thursday. Second term commences.

March 20, Wednesday. Second term ends.

#### VACATION OF TWO WEEKS.

# TRUSTEES.

HON. JAMES POLLOCK, LL.D., PRESIDENT,  
 REV. S. M. ANDREWS, D.D., SECRETARY,  
 REV. SEPTIMUS TUSTIN, D.D.,  
 REV. DAVID J. WALLER,  
 REV. ROBERT HAMILL, D.D.,  
 WILLIAM C. LAWSON,  
 JAMES McKEEN,  
 MATTHEW HALE JONES,  
 McEVERS FORMAN,  
 REV. SAMUEL F. COLT,  
 REV. AARON H. HAND, D.D.,  
 REV. WILLIAM C. CATTELL, D.D.,  
 HON. JAMES ROSS SNOWDEN,  
 REV. MILO J. HICKOK, D.D.,  
 A. PARDEE,  
 ALFRED MARTIEN,  
 REV. J. H. MASON KNOX, D.D.,  
 JOHN F. McCOY,  
 BARTON H. JENKS,  
 THOMAS BEAVER,  
 JOSEPH H. SCRANTON,  
 JOHN WELLES HOLLENBACK,  
 HON. JAMES MORRISON HARRIS,  
 COL. WILLIAM DORRIS, JR.,  
 MORRIS PATTERSON,  
 JOHN CURWEN, M.D.,  
 WILLIAM ADAMSON,

PHILADELPHIA.  
 DOYLESTOWN.  
 WASHINGTON CITY.  
 BLOOMSBURG.  
 BOALSBURG.  
 MILTON.  
 EASTON.  
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 WYSAUKING.  
 PALISADES, N. Y.  
 EASTON.  
 PHILADELPHIA.  
 SCRANTON.  
 HAZLETON.  
 PHILADELPHIA.  
 PHILADELPHIA.  
 NEW YORK CITY.  
 PHILADELPHIA.  
 DANVILLE.  
 SCRANTON.  
 WILKES BARRE.  
 BALTIMORE, Md.  
 HUNTINGDON.  
 PHILADELPHIA.  
 HARRISBURG.  
 PHILADELPHIA.

## TREASURER,

PROF. JAMES H. COFFIN,

EASTON, PA.

## MEMBERS OF THE FACULTY.

---

REV. WILLIAM C. CATTELL, D. D., PRESIDENT,  
AND PROFESSOR OF MENTAL AND MORAL PHILOSOPHY.

TRAILL GREEN, M. D., LL.D.,  
ADAMSON PROFESSOR OF GENERAL AND APPLIED CHEMISTRY.

JAMES HENRY COFFIN, LL.D.,  
PROFESSOR OF MATHEMATICS AND ASTRONOMY.

FRANCIS ANDREW MARCH, LL.D.,  
PROFESSOR OF THE ENGLISH LANGUAGE AND COMPARATIVE PHILOLOGY.

REV. JOHN LEAMAN, A. M., M. D.,  
PROFESSOR OF HUMAN PHYSIOLOGY AND ANATOMY.

REV. JAMES REED ECKARD, D. D.,  
PROFESSOR OF HISTORY AND ARCHÆOLOGY OF LITERATURE.

REV. LYMAN COLEMAN, D. D.,  
PROFESSOR OF LATIN AND OF BIBLICAL AND PHYSICAL GEOGRAPHY.

REV. THOMAS C. PORTER, D. D.,  
PROFESSOR OF BOTANY AND ZOOLOGY.  
(Jessie Chamberlain Professorship of Botany.)

AUGUSTUS ALEXIS BLOOMBERGH, A. M.,  
PROFESSOR OF MODERN LANGUAGES.

HENRY FRANCIS WALLING, C. E.,  
PROFESSOR OF CIVIL AND TOPOGRAPHICAL ENGINEERING.

R. B. YOUNGMAN, A. M.,  
PROFESSOR OF THE GREEK LANGUAGE AND LITERATURE.

FREDERICK PRIME, JR., A. M.,

PROFESSOR OF METALLURGY AND MINERALOGY,

E. HUBBARD BARLOW, A. M.,

PROFESSOR ELECT OF RHETORIC, ELOCUTION, AND PHYSICAL CULTURE.

CHARLES HENRY HITCHCOCK, PH. D.,

LECTURER ON GEOLOGY,

R. W. RAYMOND, PH. D.,

LECTURER ON MINING GEOLOGY.

SELDEN JENNINGS COFFIN, A. M.,

ADJUNCT PROFESSOR OF MATHEMATICS.

JAMES W. MOORE, A. M., M. D.,

ADJUNCT PROFESSOR OF MECHANICS AND EXPERIMENTAL PHILOSOPHY.

EDWARD S. MOFFAT, A. M., M. E.,

LECTURER IN THE DEPARTMENT OF MINING.

JUSTUS M. SILLIMAN, M. E.,

ADJUNCT PROFESSOR OF MINING ENGINEERING AND GRAPHICS.

THEODORE F. TILLINGHAST, C. E.,

ADJUNCT PROFESSOR OF CIVIL ENGINEERING.

CHARLES McINTIRE, B. S.,

ASSISTANT IN CHEMISTRY.

JOHN BOYD GRIER, A. M.,

TUTOR IN MODERN LANGUAGES.

WALTER QUINCY SCOTT, A. B.

TUTOR IN GREEK AND LATIN.

JOSEPH JOHNSON HARDY, A. B.,

TUTOR IN MATHEMATICS.

DAVID JEWETT WALLER, JR., A. B.,

TUTOR IN GREEK AND LATIN.

## BOARD OF EXAMINERS

FOR THE PARDEE SCIENTIFIC DEPARTMENT.

*Term Expires 1871.*

JOHN W. GARRETT, ESQ.	BALTIMORE. MD.
HON. ROBERT MCKNIGHT,	PITTSBURG.
THOMAS DICKSON,	SCRANTON.
A. A. DOUGLAS,	MAUCH CHUNK.

*Term Expires 1872.*

ASHBEL WELCH,	LAMBERTVILLE, N. J.
SELDEN T. SCRANTON.	OXFORD, N. J.
JOHN LEISENRING,	MAUCH CHUNK.
HENRY K. SMITH,	CHESTNUT HILL.

*Term Expires 1873.*

H. J. LOMBAERT,	PHILADELPHIA.
STRICKLAND KNEASS,	PHILADELPHIA.
P. W. SHAEFER,	POTTSVILLE.
FRANK CARTER,	MAHANOEY CITY.

## COMMITTEE OF THE SYNOD.

*Ministers.*

D. A. CUNNINGHAM,  
FRANK L. ROBBINS,  
CORNELIUS EARLE,  
EDWARD P. HEBERTON,

*Elders.*

ALEXANDER WHILLDIN,  
CHARLES MACALESTER,  
A. T. MCCLINTOCK.

## COMMITTEE OF THE ALUMNI.

REV. WM. ALFRED JENKS, A. M., Class of 1855, President of Alumni Association, Bridesburg, Pa.

HON. ALEXANDER RAMSAY, A. M., Class of 1838, Washington, D. C.

J. MORGAN RAWLINS, A. M., Class of 1855, Parkesburg, Pa.

JOSEPH BARRETT, A. M., Class of 1861, Bedford, N. Y.

EDWARD P. CONKLING, Class of 1867, Flemington, N. J.

## STUDENTS.

## REFERENCES.

East College, E.—West College, W.—Blair Hall, B.—Newkirk Hall, N.—Martien Hall, M.—Powel Hall, P.—Refectory, R.—Partial Course, †.—Special Course, ‡.

## RESIDENT GRADUATE.

NAME.	GRADUATION.	SPECIAL STUDY.
Addison Storrs Lewis, B. S.,	Miami University, 1869.	Engineering.

## SENIORS.

NAMES.	RESIDENCES.	ROOMS.
John Stockton Axtell	<i>Sulphur Springs, Ohio,</i>	3 W.
Laird Howard Barber,	<i>Mifflinburg,</i>	13 M.
Matthew Henry Bradley,	<i>Mercersburg,</i>	58 E.
Edward Bryan,	<i>Carbondale,</i>	20 B.
Alexander Bryden,	<i>Pittston,</i>	4 W.
Norris Hunter Cone,	<i>Baltimore, Md.</i>	36 E.
John Cowan,	<i>Sadsburyville,</i>	9 N.
James Camp Crawford,	<i>Herrick,</i>	34 E.
John Martin Crawford,	<i>Herrick,</i>	12 E.
Benjamin Douglass, Jr.,	<i>New York City,</i>	15 E.
Francis Woolworth Edgar,	<i>Easton,</i>	22 E.
Thomas McKeen Farquhar,	<i>Easton,</i>	1 P.
William Shouse Fulton,	<i>Merrittstown,</i>	60 E.
Horace Pellman Glover,	<i>Hartleton,</i>	11 N.
Fisher Gutelius,	<i>Mifflinburg,</i>	2 P.
Jonathan Moore Harris,	<i>Phillipsburg, N. J.</i>	12 P.
Olin Frisbie Harvey,	<i>Wilkes Barre,</i>	23 E.
Oscar Jewell Harvey,	<i>Wilkes Barre,</i>	23 E.
Robert McCheyne Hays,	<i>Chambersburg,</i>	58 E.
James Theodore Houston,	<i>Olivesburg, Ohio,</i>	3 W.
John Bryson Hudson,	<i>Williamsport,</i>	58 E.



## SENIORS—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
William St. George Kent,	<i>Phillipsburg, N. J.</i>	22 E.
David Bennett King,	<i>Mt. Pleasant,</i>	2 N.
Bradley Wakeman Lewis,	<i>Spring Hill,</i>	33 E.
Abram Worman Long,	<i>Point Pleasant,</i>	62 Bushkill St.
James Alexander McKnight,	<i>Chambersburg,</i>	45 E.
George King McMurtrie,†	<i>Belvidere, N. J.</i>	8 M.
John Meigs,	<i>Pottstown,</i>	8 M.
Franklin Theodore Oldt,	<i>New Berlin,</i>	13 E.
William Baxter Owen,	<i>Wysox,</i>	4 N.
Joseph Rogers Paull,	<i>Connellsville,</i>	60 E.
John Findlater Pollock,	<i>Fall Brook,</i>	43 E.
John Seollay,	<i>Westminster, Mass.</i>	21 E.
Thomas Love Springer,	<i>Loveville, Del.</i>	35 E.
Willard Springer,	<i>Loveville, Del.</i>	35 E.
Aaron Swartz,	<i>Kulpsville,</i>	15 B.
John Elfreth Watkins,	<i>Richmond, Va.</i>	7 M.
William Wiely, Jr.,	<i>Downingtown,</i>	10 N.
James William Wilson,†	<i>Easton,</i>	7 B.
John Marshall Young,†	<i>Easton,</i>	34 E.

SENIORS, . . . . . 40



## JUNIORS.

NAMES.	RESIDENCES.	ROOMS.
Chester Dewey Allis,†	<i>Rochester, N. Y.</i>	9 P.
Jacob Boyd Andrews,	<i>Agricultural College,</i>	11 M.
Wallace Shaw Ayres,	<i>Allamuchy, N. J.</i>	7 P.
William Davidson Babcock,	<i>Evansville, Ind.</i>	12 P.
Horace Brown Bannard,†	<i>Salem, N. J.</i>	Dr. Eckard.
James Gray Bolton,	<i>Philadelphia,</i>	8 P.
William Campbell Brobston,	<i>Bridgeton, N. J.</i>	1 W.
David Henshey Campbell,	<i>Antistown,</i>	9 M.
Benjamin Chambers, Jr.†	<i>Chambersburg,</i>	8 W.
Edmund Southard Doty,	<i>Mifflintown,</i>	19 N.
William Angus Douglass,	<i>New York City,</i>	15 E.
Thomas Fassitt,	<i>Philadelphia,</i>	48 E.
John Fox,	<i>Easton,</i>	9 P.
William Pendleton Gaines,	<i>Calvert, Texas,</i>	C. P. Miller.
Jacob S. Gantz,	<i>Hagerstown, Md.</i>	56 E.
James Isaac Good,	<i>Reading,</i>	7 P.
Elisha Lewis Hillis,	<i>Herrick,</i>	33 E.
Samuel Henry Houser,	<i>Mauch Chunk,</i>	7 M.
John Bryden Law,	<i>Pittston,</i>	49 E.
William Stokes Long,	<i>Point Pleasant,</i>	62 Bushkill St.
Isaiah McPherson,	<i>Herrickville,</i>	.....
James Allen Menaul,	<i>Tyrone, Ireland,</i>	17 B.
Arthur Julius Pilgrim,	<i>Columbia, Texas,</i>	1 B.
William Baird Reed,	<i>Philadelphia,</i>	59 E.
James Hall Rittenhouse,	<i>Georgetown, D. C.</i>	12 M.
Charles Albert Sandt,	<i>Easton,</i>	187 Northampton St.
John Eakin Shull,	<i>Martin's Creek,</i>	14 P.
Harry Augustus Smith,	<i>Chestnut Hill, Phila.</i>	13 P.
Howard Foster Smith,	<i>Lyons, Iowa,</i>	11 M.
Sylvester Comstock Smith,	<i>Essex, Conn.</i>	21 E.
William Ernest Smith,	<i>Hammonton, N. J.</i>	49 E.
Robert Patterson Snowden,	<i>Philadelphia,</i>	14 M.
Jefferson Snyder,	<i>Stonersville,</i>	14 B.
William Semple Sweeny,	<i>Easton,</i>	32 N. 2d St.
Clarence Gilbert Voris,	<i>Danville,</i>	24 N.
Walter Lowrie Ziegler,†	<i>Mount Joy,</i>	59 E.

## SOPHOMORES.

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NAMES.	RESIDENCES.	ROOMS.
William Clarke Alexander,	<i>Lewistown,</i>	47 E.
William Caldwell Anderson,	<i>Youngstown,</i>	12 N.
Eleazer Jacob Angle,	<i>Herrick,</i>	14 E.
Lloyd Paxton Appelman,	<i>Bloomsburg,</i>	31 E.
Edwin Atlee Barber,	<i>West Chester,</i>	13 M.
Stephen Goodyear Barnes,	<i>Perth Amboy, N. J.</i>	.....
Edward Newell Barrett,	<i>Bedford, N. Y.</i>	10 E.
Emery Shepperd Barrick,	<i>Croton, N. J.</i>	50 E.
Enoch Benson,	<i>Bridgeton, N. J.</i>	18 B.
James Calvin Bergstresser,	<i>Mount Carmel,</i>	57 E.
George Newton Best,	<i>Pittstown, N. J.</i>	10 P.
Franklin Pierce Billmeyer,	<i>Bloomsburg,</i>	31 E.
Daniel Webster Bruckart,	<i>Silver Spring,</i>	10 M.
Herbert Thomas Buckley,	<i>Easton,</i>	9 P.
Charles Edward Burns,	<i>Duncannon,</i>	18 B.
John Andrew Canan,	<i>El Dorado,</i>	9 M.
Charles Alfred Carson,	<i>New Salem,</i>	16 Northampton St.
Elijah Rittenhouse Case,	<i>Frenchtown, N. J.</i>	38 E.
William Carpenter Cline,	<i>Harmony, N. J.</i>	17 B.
Milton Lewis Cook,	<i>Merryall,</i>	43 E.
Albert Hatch Davidson,	<i>Augusta, Georgia,</i>	30 E.
John George Diefenderfer,	<i>Allentown,</i>	18 B.
Frank Drake,	<i>Easton,</i>	34 E.
Theodore Cowan English,	<i>Liberty Corner, N. J.</i>	30 E.
John Frace,	<i>Hecktown,</i>	57 E.
Henry Cooledge Frost,	<i>Cleveland, Ohio,</i>	6 M.
Thomas Crawford Galbreath,	<i>Pylesville, Md.</i>	2 B.
John White Geary,	<i>Albany, Oregon,</i>	16 Northampton St.
John Alexander Gregory,	<i>Alexandria,</i>	.....
Aaron Kerr Hannen,	<i>Philadelphia,</i>	6 M.
George Lane Huggins,	<i>New York City,</i>	48 E.
William Henry Hulick,	<i>Easton,</i>	52 E.
Wesley Middleton Hyde,	<i>Baltimore, Md.</i>	16 B.
Hathaway Kemper,	<i>Dayton, Ohio,</i>	2 R.
Daniel McKinley Kennedy,	<i>Chambersburg,</i>	27 E.

## SOPHOMORES—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
Edward Mathias Killough,	<i>Harrisburg,</i>	19 E.
Cyrus Knecht,	<i>Easton,</i>	25 So. 6th St.
George Mortimer Lewis,	<i>Wyalusing,</i>	12 E.
William Raby Little,	<i>West Chester,</i>	19 E.
John Howard Lott,	<i>Easton,</i>	51 E.
Thomas McNinch,	<i>Potts Grove,</i>	6 W.
Ambrose Kirtland Michler,	<i>Washington, D. C.</i>	12 M.
Nathan Grier Moore,	<i>Pottstown,</i>	14 E.
John Albert Mouk,	<i>Columbia,</i>	24 E.
Samuel Clarence Plank,	<i>Allen,</i>	12 M.
Alexander Ross Read,	<i>Clearfield,</i>	9 M.
William Blair Reed,	<i>Chambersburg,</i>	27 E.
Henry Rumer,	<i>Wilmington, Del.</i>	16 B.
John Milton St. Clair,	<i>Indiana,</i>	45 E.
Isaac Peter Schaeffer,	<i>Fleetwood,</i>	20 E.
William Henry Schuyler,	<i>Bloomsburg,</i>	31 E.
Walter Moffat Shanks,	<i>New York City,</i>	9 W.
Joseph Rosenbery Shimer,	<i>Martin's Creek,</i>	14 P.
Albert Peter Silver,	<i>Glenville, Md.</i>	47 E.
Augustus Thorndike Smith,*	<i>Marshall, Texas,</i>	10 M.
Henry De Witt Smith,	<i>Marshall, Texas,</i>	10 M.
Lewis Frank Sprenger,	<i>Kutztown,</i>	20 E.
Herman Alricks Stees,	<i>Mifflinburg,</i>	13 B.
Wilson Cunningham Sterling,	<i>New Derry,</i>	7 W.
Jacob Steinman Stewart,	<i>Alexandria,</i>	37 E.
William Jones Stewart, Jr.,	<i>Duncannon,</i>	38 E.
Rhamanthus Menville Stocker,	<i>Hamlington,</i>	5 W.
Henry McDanold Struble,	<i>Pleasant Valley, N. J.</i>	8 B.
Nathaniel Taylor,	<i>Moorestburg,</i>	6 W.
Levi Ellmaker Waller,	<i>Bloomsburg,</i>	32 E.
Joseph Gilliard Williamson, Jr.,	<i>Sidney, N. J.</i>	10 P.

SOPHOMORES, . . . . 66

\* Died November 20th, 1870.

## FRESHMEN.

NAMES.	RESIDENCES.	ROOMS.
Henry Aller Aller,	<i>Prospectville,</i>	10 P.
George Bonbright Anderson,	<i>Youngstown,</i>	23 N.
John Baer Bausman,	<i>Lancaster,</i>	C. P. Miller.
William Hanna Bayless,	<i>Glenville, Md.</i>	34 E.
Charles Julius Beehdolt,	<i>Easton,</i>	10 R.
Erastus Starnar Bloom,	<i>Bloomsbury, N. J.</i>	13 E.
William Crawford Bovard,	<i>Brady,</i>	7 W.
Cicero Brodhead,†	<i>Delaware Water Gap,</i>	22 N.
Levi Welts Case,	<i>Frenchtown, N. J.</i>	8 R.
Nai Chu,	<i>Bangkok, Siam,</i>	1 R.
Aaron James Clarke,	<i>Brooklyn, N. Y.</i>	13 P.
Robert Lorenzo Clark,	<i>Chestnut Level,</i>	16 Northampton St.
Harry Cook,	<i>Philadelphia,</i>	31 S. 5th St.
Enoch Israel Davies,	<i>Phillipsburg, N. J.</i>	2 B.
William Deats,	<i>Lower Mt. Bethel,</i>	2 E.
Charles Richardson Dilworth,	<i>Pittsburg,</i>	51 E.
Lawrence Dilworth,	<i>Pittsburg,</i>	51 E.
William Wilkin Dorris,	<i>Huntingdon,</i>	56 E.
Latimer Banks Doty,	<i>Mifflintown,</i>	19 N.
Addison Stewart Elliott,	<i>Callensburg,</i>	C. P. Miller.
Pennell Coombe Evans,	<i>Easton,</i>	2 W.
Francis George Fisher,	<i>Standing Stone,</i>	12 E.
Angus Lewis Fullerton,	<i>Chillieothe, O.</i>	Dr. Eckard.
Robert Henry Fulton,	<i>Latrobe,</i>	60 E.
James Buchanan Gilfillan,	<i>Cochranville,</i>	C. P. Miller.
Adam Gradwohl,	<i>Easton,</i>	J. Gradwohl.
Dudley Wells Gregg,	<i>Susquehanna Depot,</i>	6 R.
Robert Henderson Hamilton,	<i>Altoona,</i>	2 E.
Jacob Butz Heller, Jr.	<i>Easton,</i>	28 E.
Samuel Boyd Hepburn,	<i>Campbell Hall, N. Y.</i>	Dr. Eckard.
John Herron,	<i>Jewett, O.</i>	2 B.
Daniel Graffius Heylman,	<i>Bloomfield, N. J.</i>	C. Harrison.
Edward Hickey,	<i>Seranton,</i>	5 R.

FRESHMEN—*Continued*,

NAMES.	RESIDENCES.	ROOMS.
Clinton Hilliard,	<i>Easton,</i>	69 N. 4th St.
George Moyer Holt,	<i>South Easton,</i>	Canal St.
Hampton Houseman,†	<i>Rostraver,</i>	L. P.
Frederic Emanuel Keim,	<i>Easton,</i>	28 E.
Clay Kemble,	<i>Philadelphia,</i>	6 R.
Frank Lambert,	<i>New York City,</i>	9 R.
Clarence Fruit Leidy,	<i>Danville,</i>	2 W.
Robert McConaughy,	<i>Mount Pleasant,</i>	2 N.
Frank Cummins McCown,	<i>Philadelphia,</i>	9 R.
Harlan George Mendenhall,†	<i>Coatesville,</i>	13 M.
William McKeen Miller,	<i>Port Jervis, N. Y.</i>	11 E.
David Moore,	<i>Alexandria,</i>	11 E.
John Wolford Mumper,	<i>Bethlehem,</i>	6 W.
David Williamson Nevin,	<i>Shippensburg,</i>	7 R.
Joseph Pierce Nevin,	<i>Shippensburg,</i>	7 R.
John Sanford Noble,	<i>Easton,</i>	So. 6th St.
Nathaniel Marion Orr,	<i>Wilkes Barre,</i>	33 E.
Sidney Perkins,	<i>Cleveland, O.</i>	6 M.
Sylvanus Rockafellow Queen,	<i>Mount Pleasant, N. J.</i>	4 R.
Frank Bowman Reed,	<i>Clearfield,</i>	9 M.
George Benjamin Reynolds,	<i>Plymouth,</i>	56 N. 3d St.
John Butler Reynolds,	<i>Kingston,</i>	55 N. 3d St.
Thomas McKeen Riegel,	<i>Easton,</i>	7 B.
Samuel Miller Riley,	<i>Montrose,</i>	10 M.
Andrew Douglas Salkeld.	<i>Mauch Chunk,</i>	1 M.
Thomas Fatzinger Salkeld,	<i>Mauch Chunk,</i>	1 M.
Christian Weaver Sandt,	<i>Easton,</i>	9 E.
David Ephraim Sayre,	<i>Monticello, Mo.</i>	J. H. Buell.
Emilius Kitchell Sayre,	<i>Monticello, Mo.</i>	J. H. Buell.
David Schenck,	<i>Trenton, N. J.</i>	3 E.
Michael Jonas Shalter,	<i>Tuckerton,</i>	10 E.
Clayton Kerper Smith,	<i>Chestnut Hill,</i>	13 P.
Arthur Snyder,	<i>Easton,</i>	Bushkill St.
Samuel Sprecher,	<i>Lancaster,</i>	C. P. Miller.

## FRESHMEN—*Continued.*

NAMES.	RESIDENCES.	ROOMS.
George Washington Stewart,	<i>Duncannon,</i>	38 E.
Samuel Luther Stiver,	<i>Potter's Mills,</i>	58 E.
John Franklin Stonecipher,	<i>Fayette,</i>	Mrs. Field.
George Albert Thompson,	<i>Warren, Md.</i>	C. Harrison.
George Robert Van Reed,	<i>Reading,</i>	1 E.
Samuel Robert Warrender,	<i>Stapleton, N. Y.</i>	9 E.
Ethan Allen Weaver,	<i>Easton,</i>	1 N.
Thomas Wells,	<i>Scranton,</i>	8 P.
William Weston, Jr.,	<i>New York City,</i>	9 P.
William Hammill Wigton,	<i>Philadelphia,</i>	9 R.
John Clayton Wright,	<i>Mifflintown,</i>	C. P. Miller.
Nomer Junkin Wright,	<i>Milford, N. J.</i>	4 R.

FRESHMEN, . . . . . 80

### SUMMARY.

Resident Graduate,	. . . . .	1
Undergraduates,	{ Seniors, . . . . .	40
	{ Juniors, . . . . .	36
	{ Sophomores, . . . . .	66
	{ Freshmen, . . . . .	80
		223

Massachusetts,	1	Virginia,	1
Connecticut,	1	Georgia,	1
New York,	12	Texas,	4
New Jersey,	23	Oregon,	1
Pennsylvania,	154	Indiana,	1
District of Columbia,	2	Missouri,	2
Delaware,	3	Iowa,	1
Maryland,	7	Ireland,	1
Ohio,	7	Siam,	1



## COURSES OF STUDY.

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### CLASSICAL DEPARTMENT.

The CLASSICAL COURSE is similar to the Undergraduate course of our best Colleges; it will continue to afford the amplest opportunities for the study of the Ancient Languages. It is the earnest endeavor of the Board to give it greater efficiency year by year. They regard it not only as the regular introduction to the special professional study of Theology, Medicine, Law, and Teaching, but also as a thoroughly tried means of securing the culture and elevation of mind, and of imparting the useful and liberal learning which becomes a Christian scholar.

### PARDEE SCIENTIFIC DEPARTMENT.

This Department was organized in 1866, to carry into effect the conditions of a donation from A. PARDEE, ESQ., of Hazleton, Pennsylvania. In July, 1867, in response to the growing wants of the Department, the original donation was increased to \$200,000, on condition that other friends of the College should add the same sum to its general endowment. The donations for that purpose, completing nearly half a million of dollars lately added to the College funds, were made before January 1, 1869.

The Board have thus been enabled to add to the Faculty of the College eminent instructors in the various Departments of Physical Science, and to provide the buildings and apparatus necessary for thorough Courses of Scientific Instruction. The Trustees have accordingly established the PARDEE SCIENTIFIC DEPARTMENT IN LAFAYETTE COLLEGE, including,

#### I. A GENERAL SCIENTIFIC COURSE.

This is designed for those who wish to study the Natural Sciences, Mathematics, Modern Languages and Literature, History, Rhetoric, Logic, and Mental and Moral Philosophy, as thoroughly as they are studied in our best Colleges, and who would be glad to enjoy the cultivation and learned habits and associations of college life, but who will not study Greek and Latin.

The Trustees of the College are deeply impressed with the thought that



our present collegiate system has grown up under the fostering care of the Church, and that the relations of our old college studies to manly culture and religious training have been studied by generations of Christian educators. They have therefore taken care that the new course shall not be removed from the old landmarks, and that as far as possible the old approved methods of instruction shall be used in all the departments of study. It will be found that the new course includes all the studies of the old, except the Ancient Languages, and it is believed that the method of teaching English and other Modern Classics, which has been for some years in use in the College, may be so adapted to the students of the new course as to give in a good degree the same kind of discipline that is derived from the study of Greek and Latin.

## II. TECHNICAL COURSES.

Still further demands have been made on this institution on account of its peculiar relations to the *industrial resources* of our country. Lafayette College is in the midst of the great mining and manufacturing region of the Middle States. Every process used in the *mining* and *working* of the various ores of IRON, and in the manufacture of iron into the thousand forms in which it is used, is going on almost within sight. Near by are the COAL MINES which supply the markets of Philadelphia and New York. Mineral wealth abounds on all sides. The expert is continually called on to examine new tracts of land, to analyze new ores, and to devise new ways of working and handling them. Here every resource of ENGINEERING is displayed in the works connected with the preparation and transport of LUMBER, and the carrying of RAILROADS and CANALS through the mountains and over the rivers. Those who wish to prepare themselves to be working engineers in any of these departments, come from all parts of the country to observe and study these works, and it is most desirable that adequate means should be provided for the prosecution of scientific studies in the midst of them.

In addition, therefore, to the GENERAL SCIENTIFIC COURSE, which is designed to lay a substantial basis of knowledge and scholarly culture, courses of four years each have been arranged in which students may, if they choose, devote themselves during the Junior and Senior years to studies essentially practical and technical, viz.,

I. ENGINEERING, Civil and Mechanical. This Course is designed to give professional preparation for the location, construction, and superintendence of Railways, Canals, and other Public Works; Chemical Works and Pneumatic Works; the design and construction of Bridges; the

trigonometrical and topographical survey of States, Counties, etc., the survey of Rivers, Lakes, Harbors, etc., and the direction of their improvement; the design, construction, and use of Steam Engines and other Motors, and of machines in general; and the construction of geometrical, topographical and machine drawings.

II. MINING ENGINEERING AND METALLURGY. This Course offers the means of special preparation for exploring undeveloped mineral resources, and for taking charge of mining or metallurgical works. It includes instruction in Engineering as connected with the survey, exploitation, and construction of mines; with the construction and adjustment of furnaces and machines; and with machine drawings; also instruction in Chemistry and Assaying, as applied to the manipulation of minerals. In addition to the general course, provision is made for advanced students who wish to give special attention to any branch of the subject, or to prepare themselves for the charge of particular mines.

III. CHEMISTRY. This Course includes text-book study, lectures and laboratory practice, every facility for which is found in the Laboratories of JENKS CHEMICAL HALL. Particular attention is given to the Chemistry of Agriculture, Medicine, Metallurgy, and the Manufacturing processes. Provision is made for advanced students who may wish to make original researches, or to fit themselves to take charge of mines or manufacturing, or to explore and work up the mineral resources of our own and other countries.

There will also be afforded an opportunity for special study of TRADE and COMMERCE; of MODERN LANGUAGES and PHILOLOGY; of NATURAL HISTORY; of ARCHITECTURE; and of the HISTORY and INSTITUTIONS of our own country.

The Board intend that the whole Scientific Course shall have the Christian character which they have endeavoured to impress upon the studies of the College, and that Science shall be here so taught as to become the handmaid of Religion. In addition to the systematic and thorough study of the Word of God in all the classes, both of the Classical and the Scientific Department, special lectures will be given upon the connection of Science with Revealed Religion, that the student may be thoroughly informed upon the issues that are made, and be prepared to meet the arguments from Physical Science, by which our common Christianity is usually assailed.

## TERMS OF ADMISSION.

### FRESHMAN CLASS.

**Classical Course.**—Candidates for admission to the Freshman Class for the Classical Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through Simple Equations; Geometry, two books of Loomis's; English, Latin, and Greek Grammar, including Prosody; Cæsar's Commentaries (four books), or Sallust; Virgil (the Bucolics, and six books of the *Æneid*); Cicero, seven orations; Arnold's Latin Prose Composition (xii. chapters); Xenophon's *Anabasis*;\* the Gospels in the Greek Testament; Arnold's Greek Prose Composition (20 §§); or other authors fully equivalent in quantity to the above.

**General Scientific Course.**—Candidates for admission to the Freshman Class for the Scientific Course are examined in Geography, Ancient and Modern; Arithmetic, including the metric system; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

**Technical Courses.**—1. *Engineering, Civil and Mechanical.*  
2. *Mining Engineering and Metallurgy.*  
3. *Chemistry.*

Candidates for admission to the Freshman Class for these Courses are examined in Geography; Arithmetic, including the Metric System; Algebra, through Quadratic Equations; Plane Geometry, entire; the elementary principles of Natural Philosophy; English Grammar; the outlines of History, and the general contents of the Bible.

**Advanced Standing.**—Candidates for advanced standing are examined in the preparatory studies, and also in the studies gone over by the class which they propose to enter. No student will be admitted to the Senior Class after the beginning of the second term.

**Special Studies.**—Graduates of Colleges and others who are prepared to pursue the advanced studies in Engineering, Mining, Chemistry, or Philology, may be received as special Students. For the WORKING SECTIONS, see pages 28 and 29.

**Testimonials.**—Testimonials of good moral character are in all cases required; and those coming from other Colleges must produce certificates of dismission in good standing. All those who enter on temporary scholarships must produce certificates for the same, and have their entrance endorsed thereon.

**Matriculation.**—No student is considered a regular member of College until he has been matriculated, after a probation of thirty days, during which time, however, he is subject to the laws of the College.

\* The Greek Reader will be accepted for the *Anabasis*.

# COURSES OF STUDY.

## CLASSICAL DEPARTMENT.

### FRESHMAN YEAR.

#### FIRST TERM.

Livy.	Algebra, Loomis's, (continued.)
Latin Composition.	Old Testament, in English.
Xenophon, Cyropædia.	Coleman's Biblical Geography.
Classical Geography.	Lectures on Health.
English Composition.	

#### SECOND TERM.

Livy.	Geometry, Loomis's, (continued.)
Latin Composition.	English Composition.
Herodotus.	Old Testament, in English.
Greek Antiquities.	Coleman's Biblical Geography.

#### THIRD TERM.

Horace.	Algebra, completed.
Roman Antiquities.	Solid Geometry.
Greek Testament—Mark.	New Testament, in English.
Greek Composition.	Coleman's Biblical Geography.
English Composition.	

*Throughout the Year.*—Declamations, and written Translations into English from Greek and Latin.

### SOPHOMORE YEAR.

#### FIRST TERM.

Horace.	Trigonometry, Plane and Spherical.
Xenophon, Memorabilia.	Mensuration, Loomis's.
Greek Composition.	Study of Words, Trench.
Greek Testament—Acts.	Rhetoric.
	Declamations and Themes.

#### SECOND TERM.

Cicero, De Oratore.	Archæology of Greek Literature and Art.
Homer, Iliad.	Conic Sections, Coffin's.
Greek Testament.	Declamations and Themes.

#### THIRD TERM.

Homer, Iliad.	Analytical Geometry.
Greek Testament—Acts.	Differential and Integral Calculus.
Archæology of Roman Literature and Art.	Navigation and Surveying, Loomis's.
French.	Declamations and Themes.



## JUNIOR CLASS.

## FIRST TERM.

Natural Philosophy, (commenced.)	German.
Demosthenes, De Corona.	Greek Testament, Romans.
History of Greece.	Declamations, Themes, and written De-
Cicero, Tusculan Disputations.	bates.

## SECOND TERM.

Natural Philosophy, (continued.)	Constitution of the United States.
Tacitus, Germania and Agricola.	Political Philosophy.
Anglo-Saxon, March's Grammar and Reader.	Greek Testament, Romans.
English, Milton.	Declamations, Themes, and written De-
Fowler's English Language.	bates.

## THIRD TERM.

Natural Philosophy, (completed.)	English, Shakespeare.
Spherical Trigonometry.	Fowler's English Language.
Chemistry.	Greek Testament, Romans.
Greek Tragedies.	Declamations, Themes, and Extempora-
Anglo-Saxon, (continued.)	neous Speaking.

## SENIOR YEAR.

## FIRST TERM.

Mental Philosophy, (commenced.)	Plato.
Astronomy, (commenced.)	History.
Botany.	Confession of Faith.
Zoölogy.	Themes, and Extemporaneous Speaking.
Anatomy and Physiology.	

## SECOND TERM.

Mental Philosophy, (completed.)	Geology, (commenced.)	} Elective.
Political Economy.	Mineralogy.	
Logic.	Juvenal and Perseus.	
Rhetoric.	Astronomy, (completed.)	
Moral Philosophy.	Hebrew, Green's Grammar and Chrestomathy.	
Evidences of Christianity.	Themes, and Extemporaneous Speaking.	
English Literature.		

## THIRD TERM.

Greek Harmony of the Gospels.	History.	} Elective.
Butler's Analogy.	French.	
Latin and Greek Literature.	German.	
Comparative Philology.	Hebrew, Green's Grammar, and Chrestomathy.	
Geology, (completed.)	Themes, and Extemporaneous Speaking.	
Architecture.		

# PARDEE SCIENTIFIC DEPARTMENT.

## GENERAL SCIENTIFIC COURSE.

### FRESHMAN YEAR.

#### FIRST TERM.

Algebra, Loomis's, (continued.)	Chemistry.
Stereotomy, Elementary Drawing.	Old Testament.
French.	Coleman's Biblical Geography.
English, March's Method.	Lectures on Health.
English Composition.	

#### SECOND TERM.

Geometry, Loomis's, (commenced.)	Chemistry.
Drawing, Plane Problems.	English Composition.
French.	Old Testament.
German.	Coleman's Biblical Geography.

#### THIRD TERM.

Algebra, (completed.)	Mineralogy.
Solid Geometry.	English Composition.
Geometrical Drawing.	New Testament.
Modern Languages.	Coleman's Biblical Geography.

*Throughout the Year.*—Declamations, and written Translations into English, from French and German.

### SOPHOMORE YEAR.

#### FIRST TERM.

Trigonometry, Plane and Spherical.	Study of Words, Trench.
Mensuration, Loomis's.	English, Bunyan.
Geometrical Drawing.	Rhetoric.
French.	Acts of the Apostles.
German.	Declamations and Themes.
Chemistry, (optional.)	

#### SECOND TERM.

Conic Sections, Coffin's.	English, Spenser.
Geometrical and Topographical Drawing.	Chemistry, (optional.)
German.	Acts of the Apostles.
Botany.	Declamations and Themes.
Zoölogy.	

#### THIRD TERM.

Analytical Geometry.	English, Chaucer.
Differential and Integral Calculus.	Archæology of Biblical Literature.
Descriptive Geometry.	Acts of the Apostles.
Navigation and Surveying, Loomis's.	Botany. Zoölogy.
Modern Languages.	Declamations and Themes.

## JUNIOR YEAR.

## FIRST TERM.

Natural Philosophy, (commenced.)	Zoölogy.
French.	Botany.
English, Bacon.	New Testament Epistles.
Chemistry.	} Elective.    Declamations, Themes, and written De-
Descriptive Geometry.	
	bates.

## SECOND TERM.

Natural Philosophy, (continued.)	English, Milton.
Shades and Shadows, (optional.)	Constitution of the United States.
Colored Topography, (optional.)	Political Philosophy.
Zoölogy.	New Testament Epistles.
Botany.	} Declamations, Themes, and written De-
Anglo-Saxon, March's Grammar and Reader.	
	bates.

## THIRD TERM.

Natural Philosophy, (completed.)	English, Shakespeare.
Spherical Trigonometry.	Modern Languages.
German.	New Testament Epistles.
Anglo-Saxon, (continued.)	} Declamations, Themes, and Extempora-
Linear Perspective, (optional.)	
	neous Speaking.

## SENIOR YEAR.

## FIRST TERM.

Mental Philosophy, (commenced.)	Modern Literature.
Astronomy, (commenced.)	Anatomy and Physiology.
History.	Confession of Faith.
Modern Languages.	Themes, and Extemporaneous Speaking.

## SECOND TERM.

Mental Philosophy, (completed.)	Geology, Hitchcock's.	
Political Economy.	Mineralogy.	
Logic.	English Literature.	
Rhetoric.	Modern Languages.	} Elective.
Moral Philosophy.	Astronomy, (completed.)	
Evidences of Christianity.	Physical Geography.	
	Themes, and Extemporaneous Speaking.	

## THIRD TERM.

Butler's Analogy.		Architecture.	
Geology, Hitchcock's.		Comparative Philology.	
Philosophy of Mathematics.	} Elective.	History.	} Elective.
Archæology of Literature.		Modern Languages.	
		Themes, and Extemporaneous Speaking.	



# TECHNICAL COURSES.

## CIVIL ENGINEERING COURSE.

### FRESHMAN YEAR.

#### FIRST TERM.

Algebra, Loomis's, (continued.)	French.
Trigonometry, Loomis's.	Coleman's Biblical Geography.
Stereotomy, Elementary Drawing.	Lectures on Health.
Chemistry.	

#### SECOND TERM.

Mensuration, Loomis's, (commenced.)	Chemistry.
Surveying, Loomis's.	French.
Problems in Division of Land.	German, (optional.)
Drawing, Plane Problems.	Coleman's Biblical Geography.

#### THIRD TERM.

Algebra, (completed.)	Mineralogy.
Geometry, (completed.)	French.
Surveying, field work.	German, (optional.)
Geometrical Drawing.	Coleman's Biblical Geography.

*Throughout the Year.*—Declamations and Themes.

### SOPHOMORE YEAR.

#### FIRST TERM.

Mensuration, (completed )	French.
Surveying, field work.	German, (optional.)
Geometrical Drawing.	Trench on Words.
Chemistry, (optional.)	Acts of the Apostles.

#### SECOND TERM.

Conic Sections.	French.
Topographical Drawing.	German, (optional.)
Botany. Zoölogy.	English, Spenser, (optional.)
Chemistry, (optional.)	Acts of the Apostles.

#### THIRD TERM.

Analytical Geometry.	French.
Differential and Integral Calculus.	German, (optional.)
Descriptive Geometry.	English, Chaucer, (optional.)
Botany. Zoölogy.	Acts of the Apostles.

*Throughout the Year.*—Declamations and Themes.

## JUNIOR YEAR.

## FIRST TERM.

Natural Philosophy, (commenced.	Zoölogy.
Descriptive Geometry, (General Orthographic Projections.)	Botany.
Geodesy.	Mineralogy, (optional.)
French.	New Testament Epistles.
	Declamations and Themes.

## SECOND TERM.

Natural Philosophy, (continued.)	Calculation of Areas.
Calculus, (continued.)	Zoölogy. Botany.
Shades and Shadows.	English, Anglo-Saxon, (optional.)
Colored Topography.	New Testament Epistles.
Map of Survey.	Declamations and Themes.
Theory and Adjustment of Instruments.	

## THIRD TERM.

Natural Philosophy, (completed.)	English, Shakespeare.	} Optional.
Analytical and Applied Mechanics.	Anglo-Saxon.	
Linear Perspective.	New Testament Epistles.	
Topographical Surveying.	Declamations, Themes, and Extemporaneous Speaking.	
Hydrographical Surveying.		
Map of Topographical Survey.		

## SENIOR YEAR.

## FIRST TERM.

Higher Geodesy.	Astronomy, (optional.)
Road Engineering — Surveys and Estimates.	Mental Philosophy, (optional.)
Plans, Profiles and Sections of Road Surveys.	Modern Languages, (optional.)
General Theory of Machines.	Anatomy and Physiology.
	Confession of Faith.
	Themes and Speaking.

## SECOND TERM.

Machinery and Motors.	Political Economy.
Machine Drawing.	Astronomy, (optional.)
Stability of Structures.	Geology.
Supply and Distribution of Water.	Physical Geography.
Modern Languages.	Evidences of Christianity.
Mental Philosophy, (optional.)	Themes, Speaking.

## THIRD TERM.

Designs for, and Reviews of Engineering Works.	Butler's Analogy, (optional.)
The Steam Engine.	Natural History, (optional.)
Stone Cutting.	English Literature, (optional.)
Stability of Structures.	Modern Languages.
Philosophy of Mathematics.	Comparative Philology, (optional.)
Geology.	History, (optional.)
	Themes, Speaking.
Graduation Theses.	

## MINING ENGINEERING AND METALLURGY.

The FRESHMAN and SOPHOMORE years are the same in this as in the CIVIL ENGINEERING Course, except that German and Chemistry are required, and part of the French is optional.

## JUNIOR YEAR.

## FIRST TERM.

Natural Philosophy, (commenced.)	Zoölogy. Botany.
Qualitative Analysis.	German. }
Mineralogy.	French. } Optional.
Chain Surveying.	English. }
Compass Surveying.	New Testament Epistles.
Angular Surveying.	Declamations, Themes.

## SECOND TERM.

Natural Philosophy, (continued.)	Blow-piping.
Calculus, (continued.)	Zoölogy.
Theory and Adjusting of Instruments.	Botany.
Colored Topography.	English, Anglo-Saxon, (optional.)
Maps of Surveys.	New Testament Epistles.
Qualitative Analysis.	Declamations, Themes.

## THIRD TERM.

Natural Philosophy, (completed.)	English, Shakespeare. }
Analytical and Applied Mechanics.	Anglo-Saxon. }
Topographical Surveying.	French. }
Map of Topographical Survey.	German. }
Qualitative Analysis.	New Testament Epistles.
Blow-Pipe Analysis.	Declamations, Themes, and Extemporaneous Speaking.

## SENIOR YEAR.

## FIRST TERM.

Quantitative Analysis.  
 Volumetric Analysis.  
 Metallurgy.  
 Lithology.  
 Exploitation of Mines.

General Theory of Machines.  
 Mental Philosophy, (optional.)  
 Anatomy and Physiology.  
 Confession of Faith.  
 Themes, Speaking.

## SECOND TERM.

Quantitative Analysis.  
 Assaying.  
 Metallurgy.  
 Strength of Materials.  
 General Theory of Machines.

Machine Drawing.  
 Mental Philosophy, (optional.)  
 Geology.  
 Evidences of Christianity.  
 Themes, Speaking.

## THIRD TERM.

Mineral Analysis.  
 Metallurgy.  
 Mine Surveying.  
 Ore Deposits.  
 Economic Geology and Palaeontology.

The Steam Engine.  
 Designs for, and Reviews of Special  
 Metallurgical and Mining Operations.  
 Natural History, (optional.)  
 Themes, Speaking.

Graduation Theses.

## CHEMICAL COURSE.

The FRESHMAN and SOPHOMORE years are the same in this as in the GENERAL SCIENTIFIC COURSE. See page 21.

## JUNIOR YEAR.

## FIRST TERM.

Natural Philosophy, (commenced.)  
 Qualitative Analysis, (commenced.)  
 Zoölogy. Botany.  
 New Testament Epistles.

French. }  
 English. } Elective.  
 Drawing. }  
 Declamations, Themes.

## SECOND TERM.

Natural Philosophy, (continued.)  
 Qualitative Analysis, (continued )  
 Blow-piping.  
 Zoölogy. Botany.  
 Constitution of the United States.  
 New Testament Epistles.

German. }  
 English. } Elective.  
 Anglo-Saxon. }  
 Declamations, Themes, and Extempo-  
 raneous Speaking.

## THIRD TERM.

Natural Philosophy, (completed.)	English, Shakespeare.	} Elective.
Qualitative Analysis.	Anglo-Saxon.	
Blow-Pipe Analysis.	French.	
Physical Geography.	German.	
Lithology.	Declamations, Themes, and Extemporaneous Speaking.	

## SENIOR YEAR.

## FIRST TERM.

Quantitative Analysis.	Mental Philosophy, (optional.)
Volumetric Analysis.	Astronomy. (optional.)
Anatomy and Physiology.	Modern Languages.
Course on Iron, (optional.)	Confession of Faith.
	Themes, Speaking.

## SECOND TERM.

Organic Analysis.	Mental Philosophy, (optional.)
Assaying.	Political Economy.
Technical Chemistry.	Astronomy, (optional )
Mineral Analysis.	Physical Geography.
Course on Iron, (optional.)	Evidences of Christianity.
Geology.	Themes, Speaking.

## THIRD TERM.

Technical Chemistry.	Natural History, (optional.)
Agricultural Chemistry.	English Literature, (optional.)
Geology.	Modern Languages.
Reviews of Chemical Works.	Comparative Philology, (optional.)
Philosophy of Mathematics, (optional.)	Themes, Speaking.
Butler's Analogy, (optional.)	

Graduation Theses.

## WORKING SECTIONS.

Certain portions of the Technical Courses may be taken by persons who wish to devote their whole attention, for a short time, to thorough preparation for professional employment in the following branches of Engineering, Mining, and Chemistry.

Any one who has completed the work of either of these Sections, may obtain from the Faculty a Certificate to that effect.

GRADUATES of Colleges or Schools of Science may enter either of the WORKING SECTIONS without Examination.

PRACTICAL ENGINEERS may join the Corps of ROAD ENGINEERS, or MINING ENGINEERS, without Examination.

Others wishing to join the WORKING SECTIONS in ROAD ENGINEERING and MINING ENGINEERING, must pass an Examination in Arithmetic, Algebra, and Geometry.

They must also pass an Examination in Trigonometry, Surveying, Conic Sections, the Calculus, and Descriptive Geometry; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those wishing to join the SECTION ON IRON, must pass an Examination in Arithmetic and Geography. They must also pass an Examination in General Chemistry and Analytic Chemistry, Mineralogy, and Natural Philosophy; or if they fail to do so on entering, they must study those branches here, in addition to the proper work of the Section.

Those who wish to take the WORKING COURSE IN CHEMISTRY, must pass the Examination required for the General Scientific Course. They must also pass an Examination in General Chemistry; or if they fail to do so on entering, they must attend a course of lectures on it here, before working in Analytic Chemistry.

### I. ROAD ENGINEERING.

The SENIOR CLASS of the Engineering Course is organized as an Engineering Corps, and goes through all the necessary operations for the construction of a Railroad from Easton to some selected terminus.

Preliminary Study of Maps.

Reconnoissance.

Running Preliminary lines.

Maps and Memoirs of same.

Final Location of Road; Grades and Curves.

Final Maps, showing Longitudinal and Cross Sections, Excavations, &c.

The Field Work and Office Work, including Drafting and Calculation, are performed under the direction of the Professor. Each step is accompanied by textbook study and lectures. Examinations are made of Engineering works in the vicinity, and written reports upon them (with drafts) are required. Both theory and practice are thoroughly taught.

The work in this Course began this year with the first collegiate term, Thursday, September 1st, 1870.



## II. MINING ENGINEERING.

The SENIOR CLASS of the Engineering Course study and describe certain of the Mines near Easton. This work includes—

Access, Roads, Canals.

Exploitation.

Shafts.

Supports.

Tunnels.

Embankments.

Drainage.

Ventilation.

Reports accompanied by plans, calculations, and discussion of the principles involved are required. Text-book study and lectures precede and accompany this work.

This Course begins this year with the Second Collegiate Term, Thursday, January 5th, 1871.

## III. METALLURGY AND MINERALOGY.

### COURSE ON IRON.

Physical and Chemical Properties of Iron.

Alloys of Iron.

Direct Extraction of Malleable Iron from Ores.

Blast Furnaces.

Chemical Reactions in the Blast Furnace.

Blowing Engines, Regulators, Hot Blast.

On the best Form of Blast Furnace, and Details in making the same.

Theory and Practice of Fluxes.

Charges and Yields of Blast Furnaces.

Bloomeries and Rolling Mills.

Puddling and Reheating.

Steel. Production of Steel by the addition of Carbon to Malleable Iron.

Production of Steel by partial Decarburi-  
zation of Cast Iron.

Production of Steel by Fusion of Pig Iron  
with malleable Iron.

Casting Steel.

Theses and Reports on Ores.

This course is accompanied by lectures, aided by text-book study, with the view of attaining a scientific mastery of the processes. It occupies two College terms. It is preceded by an introductory course on General Metallurgy, and is followed by a Course on Lead, Silver, Gold, and other metals.

The Course on Mineralogy is that contained in Dana's Manual of Mineralogy, together with blow-pipe analysis. The students are trained to determine minerals by their physical qualities and by the blow-pipe.

## IV. CHEMISTRY.

Rooms in Jenks Chemical Hall are fitted up with experiment desks and other preparations for the Laboratory work of Students. The COMMON COURSE is—

General Chemistry.

Qualitative Analysis.

Quantitative Analysis.

Volumetric Analysis.

Organic Analysis.

Mineral Analysis.

The Professor or his Assistants constantly attend and direct the work, and it is accompanied by recitations and lectures. Advanced Students who may wish to make original researches, or study any branches of Applied Chemistry, may have special provision made for them. Courses of Lectures for beginners are delivered the First Term and the Second Term of the Collegiate year, beginning this year on Thursday, September 1st, 1870, and on Thursday, January 5th, 1871.



## POST-GRADUATE COURSES.

Resident Graduates, and others having suitable preparation, may pursue the special studies of any Department in a POST-GRADUATE COURSE, under the direction and instruction of the Professor of that Department, and have the use of the Laboratories, Apparatus, Collections, Libraries, &c., while prosecuting researches in any Department. These studies and researches will not be confined to any fixed Course. Particular information may be obtained by addressing the President.

## SUMMARY OF EXERCISES OF PRACTICE.

- ASTRONOMY. Use of Instruments. Working of Observatory.
- BOTANY. Field Excursions; preparation of herbarium; original description and drawing of plants, etc.
- CHEMISTRY. Manipulations in the Laboratory throughout the course.
- DRAWING. Throughout the course.
- ENGINEERING. Visits to works, and reports on them, giving plans, etc.; construction of models. Field work, office work, see pp. 28, 29.
- GEOLOGY. Field excursions.
- MINERALOGY. Field excursions; manipulations of minerals, rocks, and metallurgical specimens; with the use of the blow-pipe.
- MINING. In the advanced course of Mining Engineering and Metallurgy, and of Chemistry, application will be made in behalf of some of the best students to work during vacation in particular mines or manufactories.
- ORATORY. Declamations in class every week. A public exercise every Thursday morning, at which all the students are present, and the classes speak by divisions. Seniors deliver original compositions.
- SURVEYS. Levelling; calculation of excavations; surface, and underground surveys; visits to mines and metallurgical works.
- THEMES. Original compositions upon assigned subjects.
- ZOOLOGY. Taxidermy; Drawing.

## SPECIAL REMARKS ON THE COURSE OF STUDIES.

### **BIBLICAL INSTRUCTION.**

The New Testament is used as a text-book for the regular daily recitations in Greek during two terms of the Classical course. The Gospel according to Mark is the study of one term, and a Greek Harmony of all the Gospels of a second term. The life and words of Christ are thus made the centre of Biblical study.

On Monday morning, throughout the year, each of the classes has a Biblical exercise. It always begins with repeating the Assembly's Catechism, or some part thereof. In the Freshman year, a general view of the contents of the Bible, and of each book, is given, with special attention to Chronology, History, and Geography. The Bible in English, and Coleman's Geography of the Bible, are used as text-books. In the Sophomore year, the Acts of the Apostles are read (in the Classical course, in the original Greek), and special study given to the lives and labors of the Apostles, and to the origin and antiquities of the Christian Church. In the Junior year, the Epistle to the Romans is studied, both as to language and doctrine, with much care and iteration. In the Senior year a daily recitation, for one term, is devoted to the critical study of the language of the Gospels; both the original Greek, and the English of our standard version. In this year are also studied the Old Testament in the original Hebrew, (an elective study); the history of translations of the Bible, especially the history of the English Bible, its merits and influence; the evidences of Christianity, with Butler's Analogy, and the Confession of Faith.

Throughout the course, the language of the English version is constantly examined, and referred to, as standard English. In Political Philosophy, reference is made to the Hebrew Commonwealth. The truths taught in the Bible in relation to the character, powers, and duties of man, are inculcated as fundamental in Mental and Moral Philosophy, and the Philosophy of History is identified with the History of Redemption.

It is designed to make the Bible the central object of study in the whole college course.

### **MENTAL AND MORAL PHILOSOPHY.**

*Haven's Mental Philosophy*, and *Alexander's Moral Science* are used as text-books during the first and second term of the Senior year; but students are required to work up the topics by self-examination, by the study of the investigations and speculations of the most eminent authors, and by class-discussions. Weekly written essays, recording the results of this labor, are prepared by each student.

### LANGUAGES.

**Latin and Greek.**—During the FRESHMAN and SOPHOMORE years, in the Classical Course, one of the daily recitations is given to Latin and one to Greek. The derivation of words is always called for. The writing of Latin and Greek is carefully practised. The reading of Classic authors is accompanied with daily lessons in Grammar, and it is made the main part of the recitation to apply the grammar just learned to the text which is read. The class is heard in divisions so small that each student shall be sure of daily drill, and the examination at the end of the term includes a thorough testing of the power of the student to repeat and apply that part of the grammar studied during the term. A progressive method is established as follows:

FRESHMAN YEAR.	<i>First Term.</i>	General Rules for Syntax. Pronunciation. The English method is used in Latin, the Continental in Greek.
	<i>Second Term.</i>	Etymology, (commenced.)
	<i>Third Term.</i>	Etymology of Verbs. Prosody, (Latin.)
SOPHOMORE YEAR.	<i>First Term.</i>	Syntax, (commenced.)
	<i>Second Term.</i>	Syntax, (modes.) Prosody, (Greek)
	<i>Third Term.</i>	Historical Etymology.

In the JUNIOR and SENIOR years the reading is also connected with the application of the principles of Comparative Philology to the text, and with the studies of History, Constitutional Law, Rhetoric, and Mental Philosophy, which the class are pursuing at that time in special text-books. Weekly written essays are prepared on assigned topics, growing out of an attempt to master Demosthenes, Tacitus, Cicero, and Plato, in these relations.

Harkness' Grammar and Andrews' Lexicon are used for Latin; for Greek Crosby's Grammar for drill, Hadley's for reference, and Liddell and Scott's Lexicon. Eschenburg's Manual and Long's Classical Atlas are used as text-books.

**English, German, French, &c.**—The ENGLISH LANGUAGE is studied in the same way as the Latin and the Greek. An English classic is taken up. The text is minutely analyzed, the idioms explored, and synonyms weighed; the mythology, biography, history, metaphysics, theology, geography, are all looked up. The rhetorical laws of English Composition, and the principles of Epic and Dramatic art are applied to Milton, Shakespeare, and other English Classics, line by line. The character of the author, and his life and times are studied, and an attempt is made to comprehend these great representative works in their relations to the English Literature and the English race.

The text is also made the foundation of more general study of language; the origin and history of recurring words, the laws by which words grow up from their roots in our language, the laws by which changes from one language to another are governed, are stamped on the mind by continual iteration; and an attempt is made to ground all these facts and laws in laws of mind, and of the organs of speech.

The culture in this department is found to be to a considerable extent a substitute in the Scientific Course, for that derived from the study of Greek and Latin, as it is usually pursued in our colleges.

March's Method of Philological Study of the English Language, Fowler's English Grammar, and the last edition of Webster's unabridged Dictionary are used in this department.

ANGLO-SAXON, GERMAN, and FRENCH, are studied in the same way, and all the languages of the course are systematically compared in the light of modern philology, so as to illustrate each other, and language in general.

ANGLO-SAXON, ENGLISH, GERMAN, and FRENCH, are regular studies in both courses; they take the place in the Scientific Course which is given to Latin and Greek in the Classical Course. Special attention is also given in this course to the conversational use of French and German. HEBREW is an elective study in the Classical Course; ITALIAN and SPANISH are optional studies for any student.

All graduates of the College, and any other persons who are prepared for such studies, may pursue the study of Comparative Philology, of the English Language and Literature, or of any other language taught to undergraduates, in a special POST-GRADUATE COURSE.

**THE FOWLER PRIZE.**—An annual prize of thirty dollars was founded in 1862 by Rev. William C. Fowler, LL.D., under the following provisions:

"A committee of at least three shall be chosen by the Faculty, to determine which student of the Senior Class has made the greatest proficiency in English Philology.

"The decision of the Committee is to be made after attending an examination in some English classic, conducted by the Professor of English, and after reading essays written by the several members of the class, which shall contain a discussion of the language of some English classic."

The class of 1868 were examined on Charles Dickens,—The Cricket on the Hearth. The prize was awarded to Herbert L. Baker.

The class of 1869 were examined on Bacon's Essays. The prize was awarded to George E. Jones.

The class of 1870 were examined on Addison,—Selections from the Spectator. The prize was awarded to D. J. Waller, Jr.



**RHETORIC.**

Besides the study of text-books, weekly written essays are required, and declamations are had every Saturday in class, and every Thursday before the College. **EXTEMPORANEOUS SPEAKING** is also cultivated. In those studies, such as Mental Philosophy, in which the recitation can be had by topics, students are required to take the floor daily and present an outline of the author's thought, with such additions as they choose, in the form of a lecture to the class. Extemporaneous (unwritten) debates are also had in class. The Juniors, during the third term, and the Seniors, deliver unwritten addresses on subjects of their own choice instead of selected declamations on Saturday. Great pains are taken to encourage the habit of simple and earnest communication of connected thought.

**BOTANY, ZOOLOGY, GEOLOGY.**

FRESHMAN YEAR.	<i>Third Term.</i>	Mineralogy.
SOPHOMORE YEAR.	<i>Second Term.</i>	Botany. Zoölogy.
	<i>Third Term.</i>	Botany. Zoölogy.
JUNIOR YEAR.	<i>First and Second Terms.</i>	Zoölogy. Botany.
SENIOR YEAR.	<i>First Term.</i>	Botany. Zoölogy.
	<i>Second Term.</i>	Mineralogy. Geology.

The exercises of the Freshman, Sophomore, and Junior Years, belong to the Scientific Course, those of the Senior year belong also to the Classical Course. The instruction includes structural and descriptive Science, —field excursions for observations and collection, preparation and care of specimens, drawing, the use of the microscope, blow-pipe, and other means of refined observation. The collections in Botany are most ample. There has been lately added to the College Herbarium, as a gift from Professor Porter, the whole of his extensive collection, the fruits of more than twenty years labor on the part of the Professor and his assistants. The special value of this collection is its Flora of Pennsylvania, which is believed to be the most complete in existence. In GEOLOGY, beside the text-book study, Prof. Hitchcock delivers a course of lectures, for which he has at his command, besides the Cabinets of the College, the unsurpassed apparatus for illustration, prepared for the lectures of the late President Edward Hitchcock, as well as his own more recent preparations and collections made in Europe, and as State Geologist of New Hampshire, Vermont, and Maine.

In the *Technical Courses* further instruction is given in Mineralogy and Geology in their relations to the arts. These studies may also be pursued in a POST-GRADUATE course.

**MATHEMATICS, PHYSICS, AND ASTRONOMY.**

To these branches are devoted about four recitations a week during the whole Classical Course. The subjects studied are as follows:

FRESHMAN YEAR.	<i>First Term.</i>	Algebra, (continued.)
	<i>Second Term.</i>	Geometry, (continued.)
	<i>Third Term.</i>	Algebra and Geometry, (completed.)
SOPHOMORE YEAR.	<i>First Term.</i>	Trigonometry and Mensuration.
	<i>Second Term.</i>	Conic Sections.
	<i>Third Term.</i>	Navigation, Surveying, Analytical Geometry, Differential and Integral Calculus.
JUNIOR YEAR.	<i>First Term.</i>	Natural Philosophy, (commenced.)
	<i>Second Term.</i>	Natural Philosophy, (continued.)
	<i>Third Term.</i>	Natural Philosophy, (completed.)
SENIOR YEAR.	<i>First Term.</i>	Astronomy, (commenced.)
	<i>Second Term.</i>	Astronomy (completed.)

Students in the Scientific Course study also Descriptive Geometry, Linear Perspective, Shades and Shadows, Drawing, in its various branches as used in the mechanic arts, and any student may elect to take an advanced course in Astronomy.

For the studies of the Technical Courses see pages 23—27.

Text-books are used as mentioned on pages 19, 20, but it is made the main effort to teach the *Subjects*. In the earlier part of the course, the method of the text-books is followed, but the student is trained to present topics in new points of view, to start objections to the statements of the text-book or of other students, and to answer such objections, and to solve and suggest original problems and theorems. The classes are heard in divisions, so that every one may be daily drilled. Written exercises are handed in.

In the more advanced subjects the studies are directed and illustrated by lectures. In the applied Mathematics students are practised in the handling of instruments, the taking of observations, and in field work of every kind. In Astronomy they are taught the working of the Observatory.

**PRIZES.**—Two prizes have been founded in this department. The first prize consists of thirty dollars, and is awarded to the student in the Senior Class who has made the highest attainment in Astronomical Science. It was awarded in 1868 to William H. Filson. In 1869 it was not awarded, there being no successful competition. In 1870 it was awarded to R. W. D. Bryan. The second prize consists of twenty dollars, and is awarded to a member of the Junior Class for proficiency in Mathematical studies. It was awarded in 1868 to Walter Q. Scott, in 1869 to Joseph J. Hardy, in 1870 to A. Swartz.

**CHEMISTRY.**

The study in this department begins with a course of lectures on General Chemistry in connection with the study of a text-book. The apparatus for experimenting has recently been enlarged by extensive purchases, and is of the most complete kind. Students are invited to pursue Analytical Chemistry through the rest of the course. Part of the Jenks Hall is fitted up with experiment desks and other apparatus, so that each student may have every aid known to modern educators in prosecuting his studies.

For the more advanced Chemical Studies of the Scientific Course see page 29.

**HISTORY, POLITICAL PHILOSOPHY.**

FRESHMAN YEAR.	<i>First Term.</i>	History of Rome.
	<i>Second Term.</i>	History of Rome.
JUNIOR YEAR.	<i>First Term.</i>	History of Greece.
	<i>Second Term.</i>	Constitution and Constitutional History of the United States. The Hebrew Commonwealth; Political Philosophy. (Lectures.)
SENIOR YEAR.	<i>First Term.</i>	History. (Lectures.)
	<i>Second Term.</i>	Political Economy.
	<i>Third Term.</i>	History. (Lectures.)

The *Constitution of the United States* is committed to memory. Story on the Constitution is studied. Weekly discussions and written essays are had, covering the most important points in the History of the formation of the Constitution, of the Conventions for its adoption, and of subsequent movements which have been connected with its construction. The organization of the *Hebrew Commonwealth* is examined in the Bible by means of topics and references, and is compared with that of the United States.

*Political Economy* is studied by text-book, and weekly discussions and written essays on the most important points.

An outline of *General History*, and an introduction to the *Philosophy of History* are given in a Course of Lectures in the Senior year.

**HUMAN PHYSIOLOGY, PHYSICAL CULTURE.**

FRESHMAN YEAR.	<i>First Term.</i>	Lectures on Health.
JUNIOR YEAR.	<i>First Term.</i>	General Principles of Physiology.
SENIOR YEAR.	<i>First Term.</i>	Lectures on Anatomy and Physiology.

The Lectures in this department are thorough and practical, illustrated by a mannikin, and by diagrams and anatomical plates and preparations.



Special consideration is also given to the bearing of the facts and principles upon NATURAL THEOLOGY.

A department of PHYSICAL CULTURE has been organized, to secure healthful daily exercise and recreation to all the students, and to teach them the laws of health. It includes training in the use of the vocal organs, and in movement and manners as connected with oratory. The physical training is a part of the regular College course, and is under the immediate supervision of the Professor of Physical Culture.

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## RELIGIOUS EXERCISES.

All the students attend prayers in the College Chapel morning and evening, and preaching on Sabbath afternoon. On Sabbath morning students attend services in one of the churches of the Borough. A daily social prayer-meeting has long been maintained by the students. Thursday evening there is divine service, conducted by the President, or one of the Professors, which the students are invited, but not required, to attend.

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## DEGREES.

**The First Degree.**—The degree of BACHELOR OF ARTS is conferred upon the graduates of the Classical department. Those students who have completed the General Scientific course of four years, and passed a satisfactory final examination, will be admitted to the degree of BACHELOR OF PHILOSOPHY.

Graduates of the Engineering Course receive the degree of CIVIL ENGINEER; those of the Mining Course the degree of MINING ENGINEER; those of the Chemical Course the degree of BACHELOR OF SCIENCE.

**Master's Degree.**—The degree of MASTER OF ARTS is conferred upon any BACHELOR OF ARTS who has been engaged in literary or scientific pursuits for a period of not less than three years since his graduation, and who has, during that time sustained a good moral character. The degree of MASTER OF SCIENCE is conferred upon any GRADUATE of the Scientific Department who has pursued for two years the Post-Graduate Course of

the College in any of the scientific departments, or who has elsewhere for three or more years, engaged in scientific pursuits, and during that time sustained a good moral character.

Those desiring the MASTER'S degree should make written application to the President at least two weeks before commencement. The fee, including diploma, is \$6.

**Certificates.**—Students who have been admitted to any part of the Scientific Course, and have passed satisfactory examinations therein, may obtain certificates of the same, on payment of the regular graduation fees, if they have been in attendance not less than one year.

## EXPENSES, &c.

Tuition, (to those not on scholarships,) in the Class-	
ical or General Scientific Course, . . .	\$15.00 a term.
Tuition in the Technical Courses, Working Sections, . . .	25.00 "
Room-rent, from \$2 to \$8, (average,) . . .	4.50 "
General expense, . . . . .	5.00 "
For the use and increase of the Library, . . .	1.00 "
Fuel, at cost, (average for the past year,) . . .	8 00 a year.

The matriculation or admission fee is \$3; the fee for diploma, &c., at graduation, or for a certificate, is \$6. The matriculation fee and all fees for diplomas and certificates are appropriated to the Library fund.

The fees for students pursuing advanced studies in Chemistry, Mining Engineering, &c., may be learned on application to the President.

Apparatus for the use of students in the Chemical Laboratories will be furnished and charged in their account, and the charge cancelled for that returned in good condition. Chemicals and all other materials will be charged according to the average cost.

For the present the scholarships securing free tuition in the regular College classes will hold good for the Scientific Course, unless the student shall select one of the Technical courses, in which case he must pay each year one-half of the regular fee for tuition.

A number of scholarships have been placed at the disposal of the Faculty, for the benefit of young men of talents and good moral character. Application for these scholarships should be made to the President.

In all cases the place of boarding must be approved by the Faculty. The price of Board in clubs the past term was from \$2.46 to \$4.15 per

week. Board, including furnished room in private families, is from \$5 to \$6 per week. The rooms in the College buildings are unfurnished. Students find their own fuel, at an average cost of from six to ten dollars a year.

Tuition, room-rent, general expense, and charge for Library, must be paid each term in advance; and no student is permitted to recite until the receipt of the Treasurer is obtained. The matriculation or admission fee is paid thirty days after entering College. Students obtain washing at about one dollar a month. Some money for books and other incidental expenses will be needed; but, with comfortable economy, the total annual expenses—exclusive of tuition and clothing—need not exceed \$275; students sometimes keep them less than \$200; and it is strongly recommended that parents furnish their sons with little beyond what will meet their necessary expenses.

Parents or guardians at a distance may deposit funds with some member of the Faculty, who will pay particular attention to the pecuniary concerns of the student, settling his bills, and transmitting an account of the expenditure; for which services he will charge a commission.

**Societies.**—There are two Literary Societies in the College, the WASHINGTON and the FRANKLIN, which have spacious and well-furnished Halls. Each Society has a valuable library. On the day preceding Commencement, the Literary Societies hold re-union meetings in the forenoon, and an oration is delivered before them in the evening.

The BRAINERD EVANGELICAL SOCIETY holds its anniversary, and has a public address on Sabbath evening preceding Commencement.

The NATURAL HISTORY SOCIETY meets in the Botanical room alternate Monday evenings, and by its Committees on the different departments of natural science, is gathering a valuable collection, illustrating the physical features of the district adjacent to Easton. It consists of students and such other gentlemen, interested in scientific research, as may be elected to membership.

The ALUMNI SOCIETY is composed of Graduates of the College and such of their classmates (who left college before graduation, and in good standing) as may have been elected. The annual meeting is held in the College Chapel on Tuesday afternoon preceding Commencement day.

The READING ROOM is under the control of a Society for procuring and preserving standard periodicals and books of reference. Any student may become a member. Its hall is open daily (Sundays excepted) for general reading out of study hours.

**Libraries.**—The College Library is open Thursday, Friday, and Saturday, at 9 o'clock, A. M.; those of the Literary Societies, on Wednesday afternoon; and of the Brainerd Society, at its regular meetings.

**Terms and Vacations.**—The College year is divided into three terms, with intervening vacations, as given in the Calendar on page 2.

All the classes are examined at the close of each term.

Students are required to be present punctually at the beginning of each term, and are not allowed during term-time to be absent from town, except by written permission from the President.

A record is kept of the punctuality, diligence, scholarship, and general behavior of each student; a report of which is sent to the parent or guardian at the close of each term.

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During the past year valuable donations have been made to the Scientific Collections of the College: from Mr. CHARLES MACALESTER of Philadelphia, mineralogical specimens; from Professor J. S. NEWBERRY, M. D., geological and metallurgical specimens; and from Rev. JOHN MENAUL, (class of 1862) Corisco Mission, a collection of shells from the coast of Africa. Valuable contributions have also been made to the general herbarium of the College by Professor JOHN TORREY, LL.D., of New York City, and Mr. THOMAS P. JAMES, of Cambridge, Mass. Some valuable models have been presented to the Engineering Department by Mr. STRICKLAND KNEASS, of Philadelphia.